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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	§	Attorney Docket No.:	24061.58
Bor-Wen Chan	§		TSMC2002-1399
Serial No.:	§	Customer No.:	27683
10/728,995	§	Group Art Unit:	2811
Filed:	§	Examiner:	To Be Determined
December 5, 2003	§		
For:	§		
MICROELECTRONIC DEVICE	§		
HAVING DISPOSABLE SPACER	§		

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

POWER OF ATTORNEY FOR PATENT APPLICATION

As a representative of the Assignee, Taiwan Semiconductor Manufacturing, Co. Ltd., I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

David L. McCombs (Reg. No. 32,271); Jeffrey M. Becker (Reg. No. 35,442); James R. Bell (Reg. No. 26,528); Timothy F. Bliss (Reg. No. 50,925); Randall C. Brown (Reg. No. 31,213); Randall E. Colson (Reg. No. 40,566); Michael A. Davis, Jr. (Reg. No. 35,488); Andrew S. Ehmke (Reg. No. 50,271); Priscilla Ferguson (Reg. No. 42,531); Sarah T. Harris (Reg. No. 35,891); William E. Hickman (Reg. No. 46,771); David R. Hofman (Reg. No. P-55,727); Rita M. Irani (Reg. No. 31,028); Wei Wei Jeang (Reg. No. 33,305); Warren B. Kice (Reg. No. 22,732); J. Andrew Lowes (Reg. No. 40,706); Todd Mattingly (Reg. No. 40,298); Julie Nickols (Reg. No. 50,826); Gloria Norberg (Reg. No. 36,706); David M. O'Dell (Reg. No. 42,044); Richard V. Wells (Reg. No. 53,757); and Chien Wei Chou (Reg. No. 41,672).

Please address all correspondence and telephone calls regarding this application to:


David M. O'Dell
Attorney for Applicants
Haynes and Boone, LLP
901 Main Street, Suite 3100
Dallas, TX 75202-3789
972-739-8635

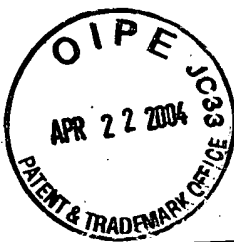
The undersigned is the representative for the Assignee of the entire right, title, and interest in the patent application identified above. A copy of the assignment or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is authorized to act on behalf of the Assignee.

Taiwan Semiconductor Manufacturing Company, Ltd.

Date


Chien-Wei Chou
Title: Director, IP Division



Form PTO-1595
(Rev. 10/02)

OMB No. 0651-0027 (exp. 6/30/2005)

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RECORDATION FORM COVER SHEET
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Bor-Wen Chan
Yu-I Wang
Han-Jan Tao

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other _____

Execution Date: 12/23/03

2. Name and address of receiving party(ies)

Name: Taiwan Semiconductor Manufacturing Co. Ltd.

Internal Address: _____

Street Address: No. 8, Li-Hsin Road 6

Science-Based Industrial Park

City: Hsin-Chu State: TW Zip: 300-77

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 10/728995

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Timothy F. Bliss

Internal Address: Haynes and Boone, LLP

Street Address: 901 Main Street, Suite 3100

City: Dallas State: TX Zip: 75202

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

08-1394

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9. Signature.

Timothy F. Bliss

Name of Person Signing

Timothy F. Bliss
Signature

1/9/04
Date

Total number of pages including cover sheet, attachments, and documents: 4

Mail documents to be recorded with required cover sheet information to:
Mail Stop Assignment, Commissioner of Patent, P.O. Box 1450
Alexandria, VA 22313-1450

Cust. No. 000027683

ASSIGNMENT

WHEREAS, we

- (1) Bor-Wen Chan of Hsin-Chu City, Taiwan, R.O.C.
Taiwan, R.O.C.
- (2) Yu-I Wang of Hsin-Chu, Taiwan, R.O.C.
Taiwan, R.O.C.
- (3) Han-Jan Tao of Hsin-Chu, Taiwan, R.O.C.
Taiwan, R.O.C.

have invented certain improvements in

MICROELECTRONIC DEVICE HAVING DISPOSABLE SPACER

for which we have executed an application for Letters Patent of the United States of America, of even date herewith; and

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd., ("TSMC"), No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, Republic of China is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TSMC, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request

AND WE HEREBY further covenant and agree that we will communicate to said TSMC, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Bor-Wen Chan

Hsin-Chu City, Taiwan, R.O.C.
Taiwan, R.O.C.

Dated: Dec. 23, 2003

Bor - Wen Chan.

Inventor Signature

Dated: 11 11 2011

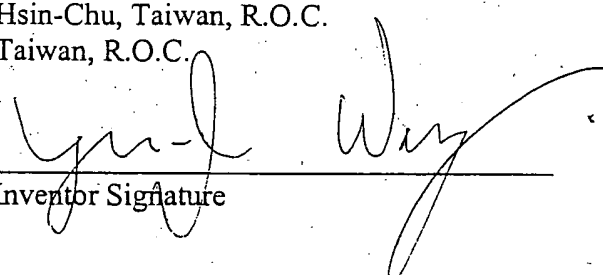
Witness Signature _____
 Witness Name: _____

Second Inventor Name:
Residence Address:

Yu-I Wang

Hsin-Chu, Taiwan, R.O.C.
Taiwan, R.O.C.

Dated: Dec. 23, 2003


Inventor Signature

Dated: _____

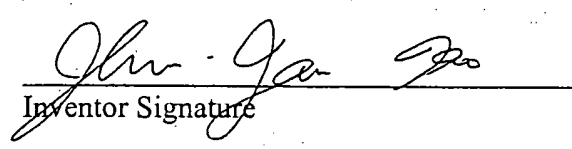
Witness Signature
Witness Name: _____

Third Inventor Name:
Residence Address:

Han-Jan Tao

Hsin-Chu, Taiwan, R.O.C.
Taiwan, R.O.C.

Dated: Dec. 23, 2003


Inventor Signature

Dated: _____

Witness Signature
Witness Name: _____



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	HAVING DISPOSABLE SPACER	§	Conf. No.:	9115

TRANSMITTAL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified patent application.

1. Power of Attorney for Patent Application; and
2. Return Receipt Postcard

Applicant believes no fee is due. However, the Director is authorized to charge any deficiency fees or credit any overpayments to Deposit Account No. 08-1394 of Haynes and Boone, LLP.

Respectfully submitted,

Timothy F. Bliss

Timothy F. Bliss
Reg. No. 50,925

Date: 4/19/04

HAYNES AND BOONE, LLP
901 Main Street, Suite 3100
Dallas, Texas 75202-3789
Telephone: 972-739-8638
Facsimile: 214-200-0853

Customer Number: 27683

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below:	
<i>Gayle Connor</i>	
Name	
<i>4-19-04</i>	
Date	